

# SUNSHINE CANYON LANDFILL ODOR NUISANCE MITIGATION



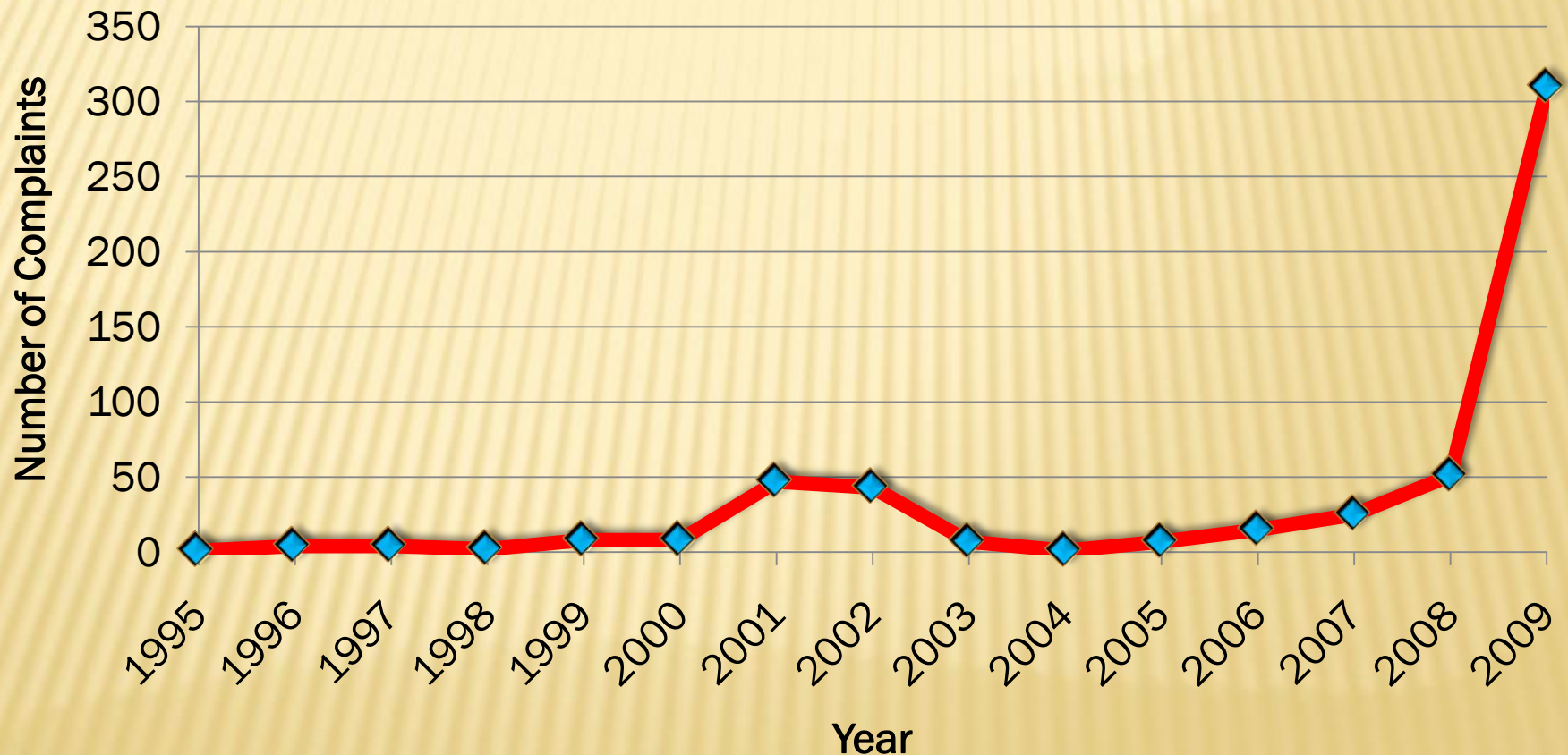
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County of Los Angeles Dept. of Public Works

December 2, 2010

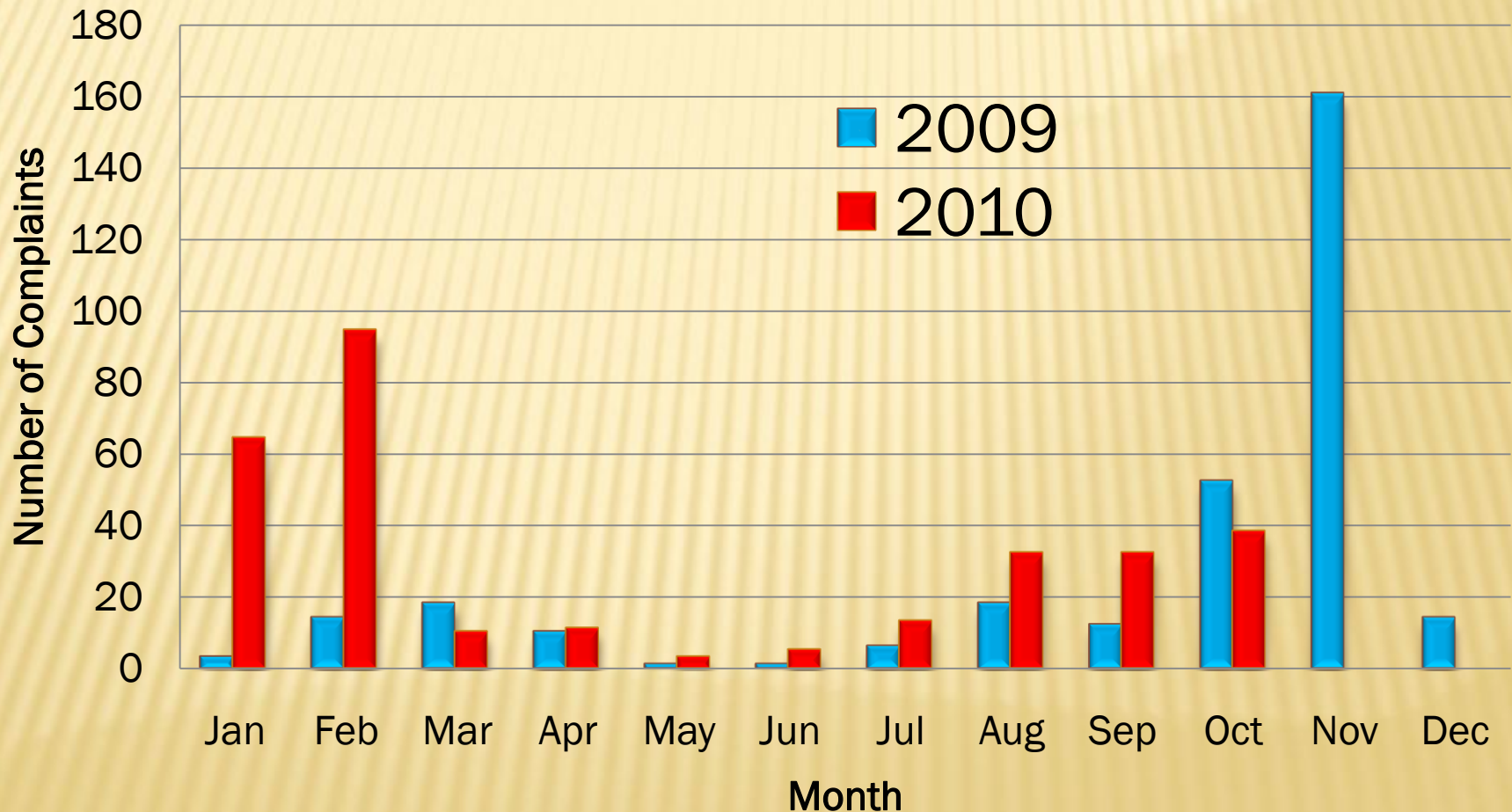
# BACKGROUND

- ✗ Historical trend of alleged odor complaints received by AQMD



# BACKGROUND

## ✖ 2009 vs. 2010 alleged odor complaints



Source: AQMD. The number of “verified” complaints is not yet available, and may be lower.



# POTENTIAL SOURCES OF ODOR

- ✗ Increases in tonnages delivered
- ✗ Working face size & location
- ✗ Monday morning deliveries
- ✗ Wind direction & climate
- ✗ Trash trucks on haul road
- ✗ Destruction of vegetation due to wildfires in 2008
- ✗ Landfill gas emissions
- ✗ Type of daily cover material on working face
- ✗ Practice of removing in-place cover soil on Monday Mornings



Photo courtesy of Republic Services

# AQMD – ORDER FOR ABATEMENT 3/24/10

## ✖ Measures Taken:

- + Restricting working face size
- + Reducing trash delivered on Monday mornings
- + Misting and odor control systems
- + Developing study proposals (neutralizers, landfill gas, working face)
- + Vegetation in southern areas



Photo courtesy of  
<http://www.mswmanagement.com/the-latest/dustboss-db-60.aspx>



# COUNTY IMPOSED MEASURES

## DPW LETTER 9/27/10

- ✖ **Immediate odor mitigation requirements**
  - + Discontinue tarp use as daily cover
  - + Use compacted soil as daily cover material
  - + Keep compacted soil in-place
  - + Alternative daily cover material requires prior written approval from DPW
- ✖ **Submit Odor Mitigation Plan**
  - + Odorous loads, odor patrol, landfill gas
  - + Republic detailed the plan in its letter of October 27

Note: Republic Services (Republic) is the owner and operator of Sunshine Canyon Landfill.



# REPUBLIC'S ODOR MITIGATION PLAN

## ✖ Managing odorous loads

- + Trained scalehouse personnel identifies loads
- + Odorous loads buried immediately
- + Unusual waste not allowed if odors are too strong



Photo courtesy of Republic Services



# REPUBLIC'S ODOR MITIGATION PLAN

## ✖ Routine odor patrols

- + Continuous odor patrol between 7 - 9am, Monday through Fridays
- + Immediate survey when complaint is received
- + Survey will document names, route, description of odors, and corrective actions taken

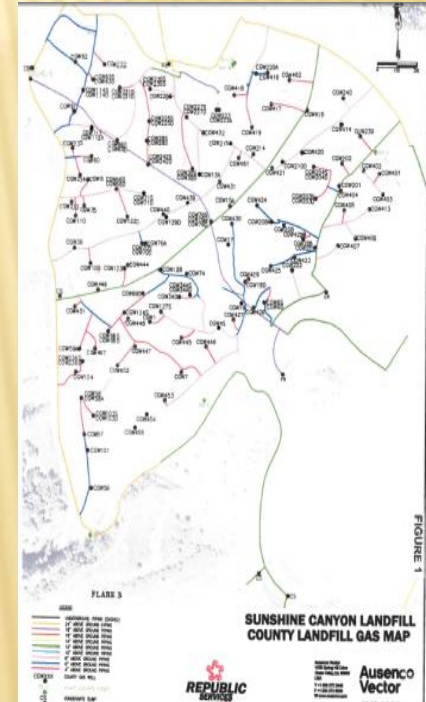
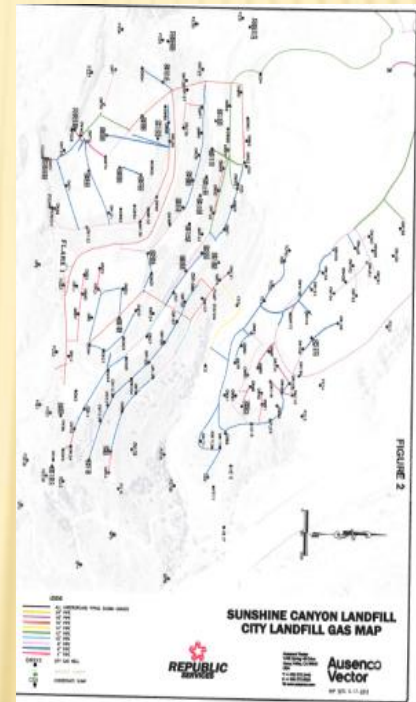




# REPUBLIC'S ODOR MITIGATION PLAN

## ✖ Gas collection and control system

- + 215 vertical gas wells
- + Header and lateral piping
- + Horizontal collectors
- + 3 flare stations



## РЕЗЮМЕ: 2 ОДОБ ИМПЛЕМЕНТАЦИОН БГАИ

## ✖ Perimeter probe monitoring system

- + Monitored on monthly basis
- + Quarterly surface monitoring
- + Tables summarizing gas exceedences

[illegible]



# REPUBLIC'S ODOR MITIGATION PLAN

## ✘ Corrective actions and measures taken

- + 50 extra gas extraction wells in June & July
  - ✘ 42 on County side, 8 on City side
- + Damaged wells replaced with new ones
- + Additional soil cover around well casing
- + Gas well tuning
- + Landfill gas prevention work plan
  - ✘ Implementation Schedule



Photo courtesy of Republic Services

# NEXT STEP

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- ✗ Work with AQMD as lead air quality agency, SCL-LEA, City of Los Angeles, and County Regional Planning
  - + Continue monitoring odor nuisance complaints
  - + Establish performance measures to evaluate effectiveness of mitigation measures
  - + Review and approve Odor Mitigation plan





# QUESTIONS AND COMMENTS

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